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TITLE Local structure definition file for the ACL editor  
IDENT /V04-000/

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FACILITY: Miscellaneous utilities

ABSTRACT:

This module contains the necessary definitions for the ACL editor  
structures and flags.

ENVIRONMENT:

VAX/VMS operating system, user mode utilities.

AUTHOR: L. Mark Pilant CREATION DATE: 25-Jan-1983 9:30

MODIFIED BY:

V03-007 LMP0213 L. Mark Pilant, 24-Mar-1984 12:23  
Add support for locking and unlocking the object's ACL.

V03-006 LMP0193 L. Mark Pilant, 14-Feb-1984 9:41  
Add the actions delete EOL, reset, and quit to the editor's  
vocabulary.

V03-006 LMP0185 L. Mark Pilant, 4-Feb-1984 12:06  
Add support for device ACLs.

V03-005 LMP0172 L. Mark Pilant, 28-Nov-1983 12:11  
Numerous bug fixes, support for VT2xx terminals, and a  
session keystroke logger.

V03-004 LMP0144 L. Mark Pilant, 25-Aug-1983 9:53  
Add a new flag bit for the keypad mode.

V03-003 LMP0103 L. Mark Pilant, 21-Apr-1983 12:09  
Add support for HIDDEN and PROTECTED ACES.

V03-002 LMP0082 L. Mark Pilant, 2-Mar-1983 12:50  
Remove the definitions for ACESx\_SUCCESS and ACESx\_FAILURE.

V03-001 LMP0076 L. Mark Pilant, 11-Feb-1983 9:36  
Fix the definition for the ITEM structure so that no  
tag is generated.



MODULE AED\$LCLDEF;

/\* This module contains the local definitions used for various  
/\* structures and flags used within the ACL editor.

/\* Define the miscellaneous flags.

aggregate FLAGDEF union prefix AED\_;

FLAG BITS structure;

VT5X bitfield mask;	/* VT52 or VT55 type terminal
VT1XX bitfield mask;	/* VT100 type terminal
VT2XX bitfield mask;	/* VT200 type terminal
SCOPE bitfield mask;	/* Terminal is a scope
WRAP bitfield mask;	/* Terminal had wrapping
ENDACL bitfield mask;	/* End of the ACL reached
ACERROR bitfield mask;	/* Error parsing ACE
MODIFIED bitfield mask;	/* ACE has been modified
BACKWARD bitfield mask;	/* Moving backwards
RUBWORD bitfield mask;	/* Rubout/delete word indicator
DELBOL bitfield mask;	/* Control-U/delete-EOL indicator
GOLDKEY bitfield mask;	/* Alternate function specified
FIRSTCHAR bitfield mask;	/* First character of entered
INSERT bitfield mask;	/* Insert ACE at random spot
INSERTTEXT bitfield mask;	/* Inserting text into ACE
PROMPT bitfield mask;	/* Prompt for ACE fields/items
OPENUIC bitfield mask;	/* UIC is not complete
OPENACE bitfield mask;	/* ACE is not complete
DIRECTORY bitfield mask;	/* File is a directory file
NOITEMSEL bitfield mask;	/* Item selection not allowed
ACEFORMAT bitfield mask;	/* Help on format not keypad
ACTIONKEY bitfield mask;	/* ACL editor action requested
APPLICAT bitfield mask;	/* Keypad in application mode
OVERSTRIKE bitfield mask;	/* Insert/overstrike mode
VERB_EDIT bitfield mask;	/* Invoked by EDIT/ACL
SET_DEV_CMD bitfield mask;	/* Invoked by SET DEVICE/ACL
SET_FILE_CMD bitfield mask;	/* Invoked by SET FILE/ACL
SET_DIR_CMD bitfield mask;	/* Invoked by SET DIRECTORY/ACL
SET_ACL_CMD bitfield mask;	/* Invoked by SET ACL
JNL_READ bitfield mask;	/* Reading from journal file

end FLAG BITS;

end FLAGDEF;

/\* Define qualifier option flags.

aggregate OPTIONDEF union prefix AED\_;

OPTION BITS structure;

JOURNAL bitfield mask;	/* Journal file requested
RECOVER bitfield mask;	/* Recovery file requested
KEEPREC bitfield mask;	/* Keep the recovery file
KEEPJNL bitfield mask;	/* Keep the journal file

end OPTION BITS;

end OPTIONDEF;

/\* Common character code definitions

constant CHAR\_BS equals 8 prefix AED\_ tag C; /\* Backspace

```
constant CHAR_TAB equals 9 prefix AED_ tag C; /* Tab
constant CHAR_LF equals 10 prefix AED_ tag C; /* Line-feed
constant CHAR_CR equals 13 prefix AED_ tag C; /* Carriage-return
constant CHAR_CTLZ equals 26 prefix AED_ tag C; /* Control-Z (EOF indicator)
constant CHAR_ESC equals 27 prefix AED_ tag C; /* Escape
```

/\* Line table entry definitions.

/\* Offsets into the line entry table.

aggregate LINEDEF structure prefix LINE\_:

FLINK longword unsigned;

BLINK longword unsigned;

SIZE word unsigned;

FLAGS structure word unsigned;

BEGINACE bitfield mask;

ENDACE bitfield mask;

DUMMY bitfield mask;

REPLACE bitfield mask;

NOTOUCH bitfield mask;

end FLAGS;

BINACE longword unsigned;

FIELDST byte unsigned;

FILL\_1 byte dimension 3 fill prefix LINEDEF

TEXT character length 1;

end LINEDEF;

/\* Forward link

/\* Backward link

/\* Size of input text

/\* Necessary context flags

/\* Beginning of the ACE

/\* End of the ACE

/\* Dummy entry for inserting

/\* Line replaces existing line

/\* Can't touch line segment

/\* Address of binary ACE

/\* Base field num for segment

tag;

/\* Start of ACE text

```
/* ACE item parsing tables.
```

```
/* Define entries in the item tables.
```

```
aggregate ITEMDEF structure prefix ITEM;  
  DSC SIZE word unsigned tag ' '; /* Size of the item text  
  FILC 4 byte dimension 2 fill prefix ITEMDEF tag  
  DSC ADDR longword unsigned tag ' '; /* Address of item text  
  VALUE longword unsigned tag ' '; /* Value for item  
end ITEMDEF;
```



/\* Editor action definitions.

/\* Action definition table entry.

aggregate KEYDEF structure prefix KEY\_;

FLINK longword unsigned;

BLINK longword unsigned;

ACTION byte unsigned;

constant (

GOLD,

HELP,

HELPMFMT,

FIND\_STR,

FIND\_NXT,

DEL\_ACE,

UNDEL\_ACE,

SEL\_FIELD,

ADV\_FIELD,

DEL\_WRD,

UNDEL\_WRD,

ADVANCE,

BOTTOM,

BACKUP,

TOP,

DEL\_CHR,

UNDEL\_CHR,

MOVE\_WRD,

MOVE\_ACE,

MOVE\_EOL,

DEL\_EOL,

INSERT,

SEL\_ITEM,

ENTER,

PREV\_SCREEN,

NEXT\_SCREEN,

UP,

DOWN,

RIGHT,

LEFT,

OVERSTRIKE,

DEBUG,

MOVE\_BOL,

RUB\_WRD,

RUB\_BOL,

UNDEL\_LIN,

REFRESH,

RESET,

EXIT,

QUIT,

RUB\_CHR,

MAX\_CODE

) equals 1 increment 1 prefix KEY\_ tag C;

SIZE byte unsigned;

FLAGS structure byte unsigned;

CSI bitfield mask;

/\* Link to next definition

/\* Link to previous definition

/\* Action code being defined

/\* Gold key

/\* General help key

/\* ACE format help key

/\* Locate string key

/\* Locate next occurrence of string

/\* Delete ACE key

/\* Un-delete ACE key

/\* Select field key

/\* Advance to next field key

/\* Delete word key

/\* Un-delete word key

/\* Advance key

/\* Set to last ACE in ACL

/\* Backup key

/\* Set to first ACE in ACL

/\* Delete character key

/\* Un-delete character key

/\* Move word key

/\* Move ACE key

/\* Go to EOL key

/\* Delete to EOL key

/\* Insert ACE key

/\* Select item key

/\* Enter ACE key

/\* Display previous screen

/\* Display next screen

/\* Up arrow

/\* Down arrow

/\* Right arrow

/\* Left arrow

/\* Insert/overstrike mode

/\* Enter the debugger if present

/\* Go to BOL key

/\* Rubout word key

/\* Rubout to BOL

/\* Un-delete a line

/\* Refresh the screen

/\* Restore ACL to initial form

/\* Exit the editor

/\* Exit without modifying ACL

/\* Rubout character key

/\* Must be last

/\* Size of definition text

/\* Modifier flags

/\* Control Sequence Introducer

```
SS3 bitfield mask;          /* Single Shift G3
GOLDREQ bitfield mask;      /* Gold key required
CTRLCHAR bitfield mask;    /* Control char definition
ESCSEQ bitfield mask;      /* Escape sequence definition
USERDEF bitfield mask;     /* User has defined the action
end FLAGS;
constant "LENGTH" equals . prefix KEY_ tag C; /* Size of definition block
TEXT character length 1;    /* Start of text definition
end KEYDEF;
end_module AED$LCCLDEF;
```



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